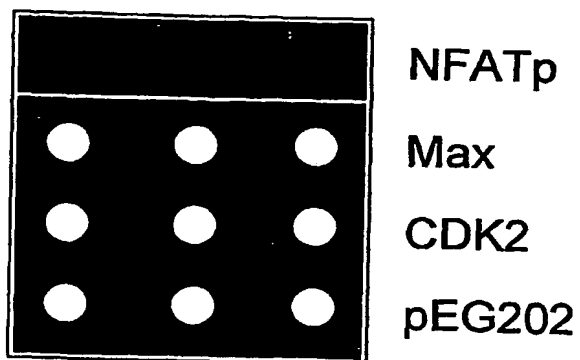
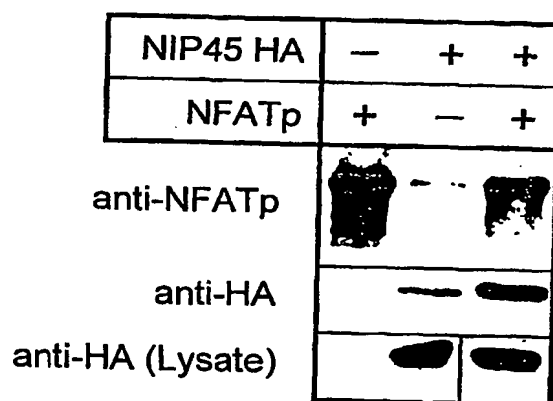


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*Fig. 1**Fig. 2*

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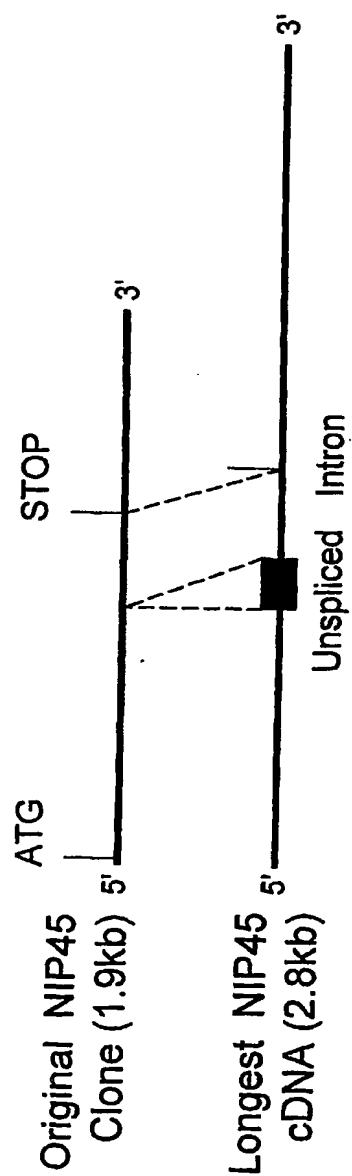


Fig. 3

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ACAGTGTGGGAGATGGCGGAACCACTGAGGGGACGTGGTCCGAGGTCC	48
TGTCACACCCTCTACCGCCTTGGTGACTCCCCTGCACCAGGCTCCAGG	
<u>M A E P L R G R, G P R S</u>	12
CGCGGTGGCCGAGGCGCTCGGAGAGCCCGAGGCGCCCGTGGCCGGTGT	96
GCGCCACCGGCTCCGCGAGCCTCTCGGGCTCCGCGGGCACCGGCCACA	
<u>R G G R G A R R A R G A R G R C</u>	28
CCTCGCGCCCGGCAGTCTCCGGCTAGGCTCATTCAGACACCGTGCTT	144
GGAGCGCGGGCCGTCAGAGGCCGATCCGAGTAAGGTCTGTGGCACGAA	
<u>P R A R Q S P A R L I P D T V L</u>	44
GTGGACTTGGTCAGTGACAGCGACGAAGAGGTCTTGAAGTCGCAGAC	192
CACCTGAACCAGTCACTGTCGCTGCTTCTCCAGAACCTTCAGCGTCTG	
<u>V D L V S D S D E E V L E V A D</u>	60
CCAGTAGAGGTGCCGGTCGCCCGCCTCCCCGCGCCGGCTAAACCTGAG	240
GGTCATCTCCACGGCCAGCGGGCGGAGGGGCGCGGCCGATTTGGACTC	
<u>P V E V P V A R L P A P A K P E</u>	76
CAGGACAGCGACAGTGACAGTGAAGGGGCGGCCGAGGGGCCTGCGGGA	288
GTCCTGTCGCTGTCAGTCACTTCCCCGCCGGCTCCCCGGACGCCCT	
<u>Q D S D S D S E G A A E G P A G</u>	92
GCCCCGCGTACATTGGTGCGACGGCGGGCGGCGGGCTGCTGGATCCC	336
CGGGGCGCATGTAACCACGCTGCCGCCGCCGCCGACGACCTAGGG	
<u>A P R T L V R R R R R R L L D P</u>	108
GGAGAGGCGCCGGTGGTCCCAGTGTACTCCGGGAAGGTACAGAGCAGC	384
CCTCTCCGCGGCCACCGGGTCACATGAGGCCCTTCCATGTCTCGTCG	
<u>G E A P V V P V Y S G K V Q S S</u>	124
CTCAACCTCATTCCAGATAATTCATCCCTCTTGAAACTGTGCCCTTCA	432
GAGTTGGAGTAAGGTCTATTAAGTAGGGAGAACTTTGACACGGGAAGT	
<u>L N L I P D N S S L L K L C P S</u>	140
GAGCCTGAAGATGAGGCAGATCTGACAAATTCTGGCAGTTCTCCCTCT	480
CTCGGACTTCTACTCCGTCTAGACTGTTTAAGACCGTCAAGAGGGAGA	
<u>E P E D E A D L T N S G S S P S</u>	156

Fig. 4A

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GAGGATGATGCCCTGCCTTCAGGTTCTCCCTGGAGAAAGAAGCTCAGA	528
CTCCTACTACGGGACGGAAGTCCAAGAGGGACCTCTTTCTTCGAGTCT	
E D D A L P S G S P W R K K L R	172
AAGAAGTGTGAGAAAGAAGAAAAGAAAATGGAAGAGTTTCCGGACCAG	576
TTCTTCACACTCTTTCTTTCTTTTCTTTTACCTTCTCAAAGGCCTGGTC	
K K C E K E E K K M E E F P D Q	188
GACATCTCTCCTTTGCCCCAACCTTCGTCAAGGAACAAAAGCAGAAAG	624
CTGTAGAGAGGAAACGGGGTTGGAAGCAGTTCCTTGTTTTCTGTCTTTC	
D I S P L P Q P S S R N K S R K	204
CATACGGAGGCGCTCCAGAAGCTAAGGGAAGTGAACAAGCGTCTCCAA	672
GTATGCCTCCGCGAGGTCTTCGATTCCCTTCACTTGTTTCGCAGAGGTT	
H T E A L Q K L R E V N K R L Q	220
GATCTCCGCTCCTGCCTGAGCCCCAAGCAGCACCAGAGTCCAGCCCTT	720
CTAGAGGCGAGGACGGACTCGGGGTTCGTCTGTGGTCTCAGGTCGGGAA	
D L R S C L S P K Q H Q S P A L	236
CAGAGCACAGATGATGAGGTGGTCCTAGTGGAAGGGCCTGTCTTGCCA	768
GTCTCGTGTCTACTACTCCACCAGGATCACCTTCCCGGACAGAACGGT	
Q S T D D E V V L V E G P V L P	252
CAGAGCTCTCGACTCTTTTACACTCAAGATCCGGTGCCGGGCTGACCTA	816
GTCTCGAGAGCTGAGAAATGTGAGTTCTAGGCCACGGCCCGACTGGAT	
Q S S R L F T L K I R C R A D L	268
GTGAGACTGCCTGTCAGGATGTCGGAGCCCCTTCAGAATGTGGTGGAT	864
CACTCTGACGGACAGTCCTACAGCCTCGGGGAAGTCTTACACCACCTA	
V R L P V R M S E P L Q N V V D	284
CACATGGCCAATCATCTTGGGGTGTCTCCAAACAGGATTCTTTTGCTT	912
GTGTACCGGTTAGTAGAACCCACAGAGGTTTGTCTTAAGAAAACGAA	
H M A N H L G V S P N R I L L L	316
TTTGGAGAGAGTGAAGTGTCTCCTACTGCCACCCCTAGTACCCTAAAG	960
AAACCTCTCTCACTTGACAGAGGATGACGGTGGGGATCATGGGATTTC	
F G E S E L S P T A T P S T L K	316

Fig. 4B

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CTTGGAGTGGCTGACATCATTGATTGTGTGGTGCTAGCAAGCTCTTCA	1008
GAACCTCACCGACTGTAGTAACTAACACACCACGATCGTTTCGAGAAGT	
L G V A D I I D C V V L A S S S	332
GAGGCCACAGAGACATCCCAGGAGCTCCGGCTCCGGGTGCAGGGGAAG	1056
CTCCGGTGTCTCTGTAGGGTCCTCGAGGCCGAGGCCACGTCCCCTTC	
E A T E T S Q E L R L R V Q G K	348
GAGAAACACCAGATGTTGGAGATCTCACTGTCTCCTGATTCTCCTCTT	1104
CTCTTTGTGGTCTACAACCTCTAGAGTGACAGAGGACTAAGAGGAGAA	
E K H Q M L E I S L S P D S P L	364
AAGGTTCTCATGTCACACTATGAGGAAGCCATGGGACTCTCTGGACAC	1152
TTCCAAGAGTACAGTGTGATACTCCTTCGGTACCCTGAGAGACCTGTG	
K V L M S H Y E E A M G L S G H	380
AAGCTCTCCTTCTTCTTTGATGGGACAAAGCTTTCAGGCAAGGAGCTG	1200
TTCGAGAGGAAGAAGAACTACCCTGTTTCGAAAGTCCGTTCCCTCGAC	
K L S F F F D G T K L S G K E L	396
CCAGCTGATCTGGGCCTGGAATCCGGAGATCTCATCGAAGTCTGGGGC	1248
GGTCGACTAGACCCGGACCTTAGGCCTCTAGAGTAGCTTCAGACCCCG	
P A D L G L E S G D L I E V W G	412
TGAAGCTCTCACCTGTTCGGACGCAAAGCCAAGACATGGAGACAATA	1296
ACTTCGAGAGTGGGACAAGCCTGCGTTTCGGTTCTGTACCTCTGTTAT	
GCTCCCAATTTTATTATTGTGATTTTTTCGCCCCATAAGGGCTAACAGA	1344
CGAGGGTTAAAATAATAACACTAAAAAGCGGGGTATTCCCGATTGTCT	
AACTGAATTAGAACTTGTTTACTTATTTATTTCTGGTGCTGGGGATTG	1392
TTGACTTAATCTTGAACAAATGAATAAATAAAGACCACGACCCCTAAC	
AACCCACAGACTATGCACATGCTAAGGATGTATGAAGTGGAGGCAAAAC	1440
TTGGGGTCTGATACGTGTACGATTCTACATACTTCACCTCCGTTTTG	
CAAGGCATTACCTTTAGCCAGCCTCTAGTAGACTGTAGTGTCAAGCAA	1488
GTTCCGTAATGGAAATCGGTCGGAGATCATCTGACATCACAGTTCGTT	

Fig. 4C

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GTGGCTACTTGGTAGTTGTGTGGCTCTGTGTATGTTTGTGCTGTATTT 1536
CACCGATGAACCATCAACACACCGAGACACATACAAACACGACATAAA

GGCAGCCCCCTGGGGCACATAGAAGGGACCTTGGCTTCCCTACCATTTC 1584
CCGTCGGGGACCCCGTGTATCTTCCCTGGAACCGAAGGGATGGTAAAG

ACGTTGCTGGTGCCCTTTCCTTCATCAGATGACTTCTGTGAAGCTGC 1632
TGCAAGCGACCACGGGAAAGGAAGTAGTCTACTGAAGACACTTCGACG

CTATGTTGAGTGTGTTGAACTAAATGAGCTCTGCTTTGGGTGTCCAGG 1680
GATACAACCTCACACAACCTTGATTTACTCGAGACGAAACCCACAGGTCC

CCTGGGGTTTGTGCCGAGTTGGAGCCAGCAGTGACTTCACTCTGACT 1728
GGACCCCAAACACGGCGTCAACCTCGGTCGTCACTGAAGTGAGACTGA

TGGGACTGAGAATGCATTTCTGGTGGAGACACTCGGGTGCAGAAATA 1776
ACCCTGACTCTTACGTAAAGGACCACCTCTGTGAGCCACGTCTTTAT

TAACAGAAGGTGACATACATGCTGAAGCTGAGGACTAGGTGAAAGTT 1824
ATTGTCTTCCACTGTATGTACGACTTCGACTCCTGATCCAGCTTTCAA

AACGACGTTGCATTTTCAGCCTTGGGTATCCTCTCTGCCTGCCAGGAC 1872
TTGCTGCAACGTAAAAGTCGGAACCCATAGGAGAGACGGACGGTCCTG

TCTAGCCAGTGTCTGGTACACACTTCTTGGCATGGACACCTAGGTCTGA 1920
AGATCGGTCACAGACCATGTGTGAAGAACCGTACCTGTGGATCCAGCT

CGCGGGCGCGATTTCGGCCGACTCGAG 1946
GCGCCCGCGCTAAGCCGGCTGAGCTC

Fig. 4D

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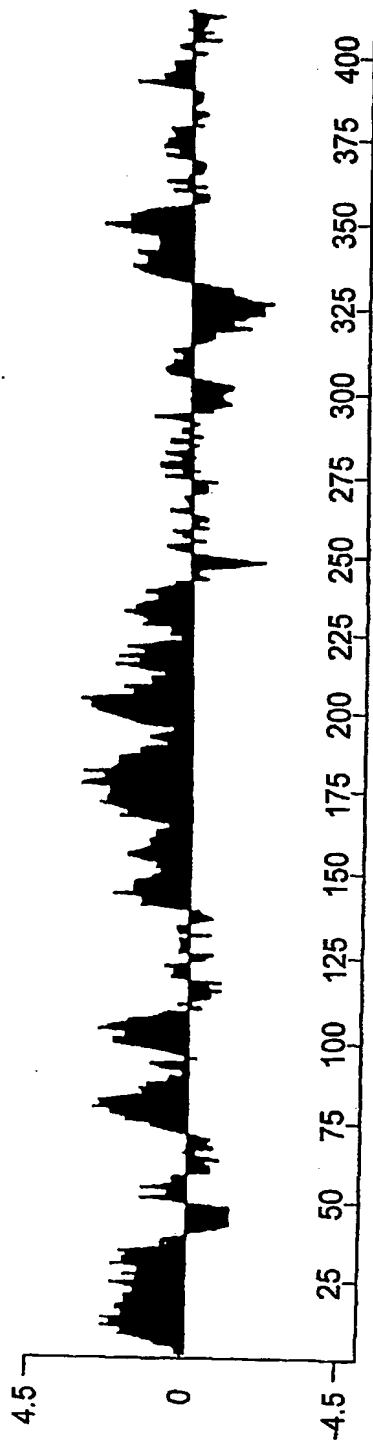
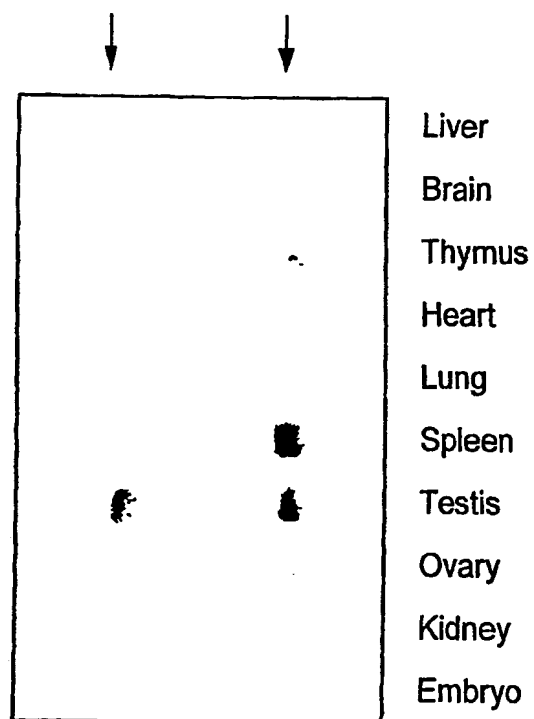


Fig. 5

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*Fig. 6*

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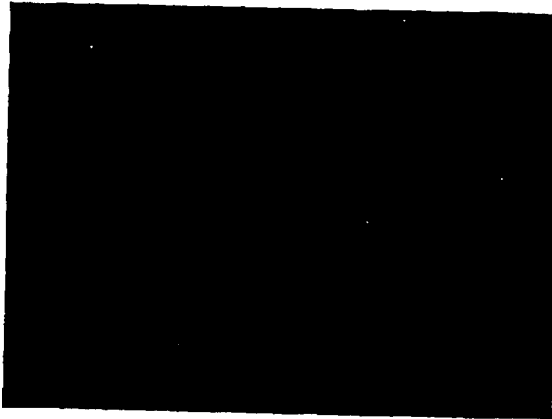


Fig. 7A

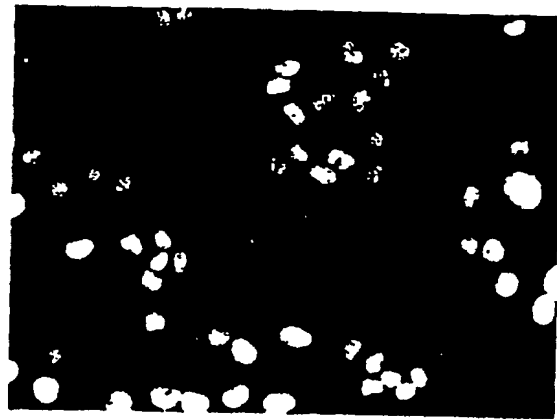


Fig. 7B

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Fig. 7C



Fig. 7D

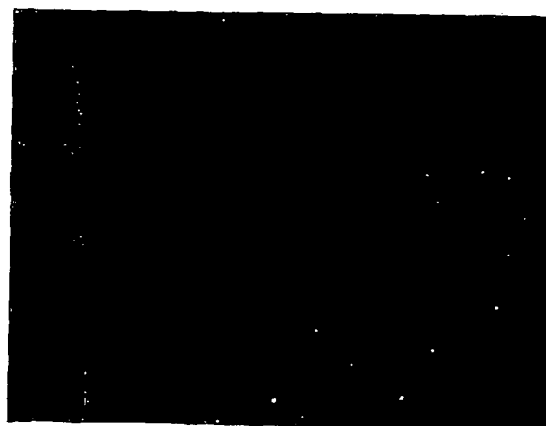
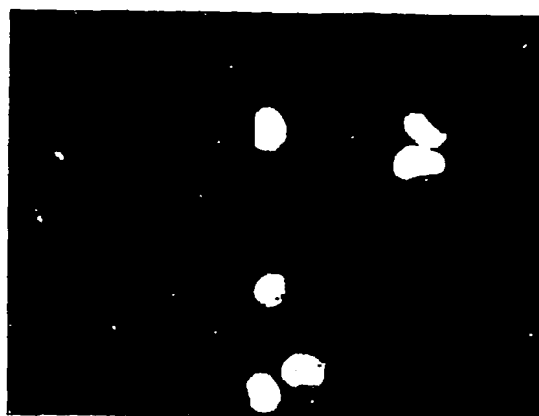
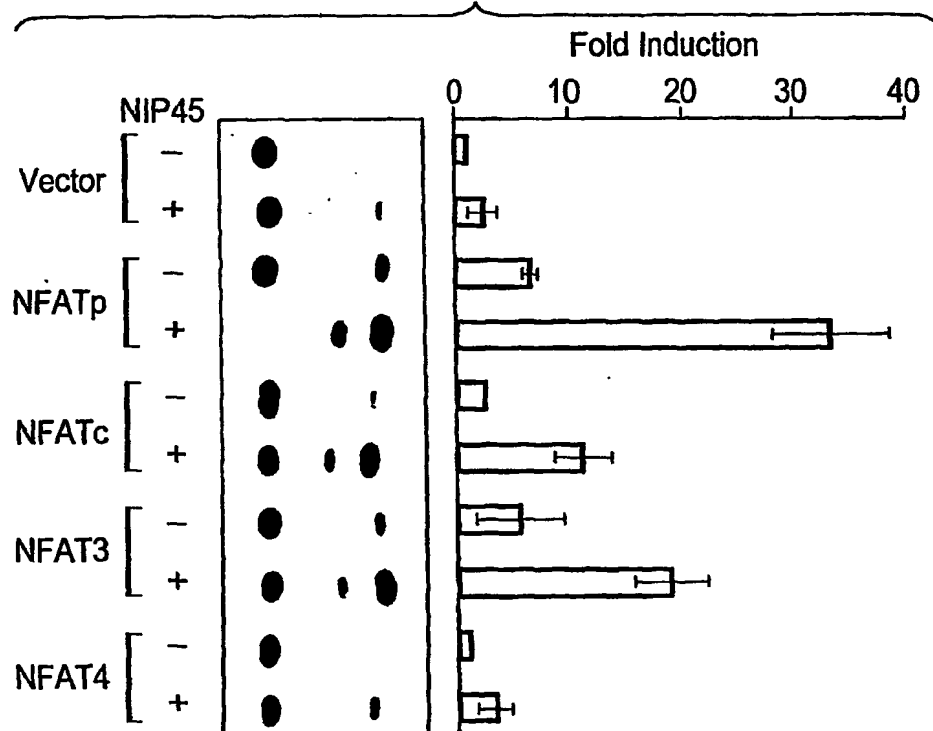


Fig. 7E

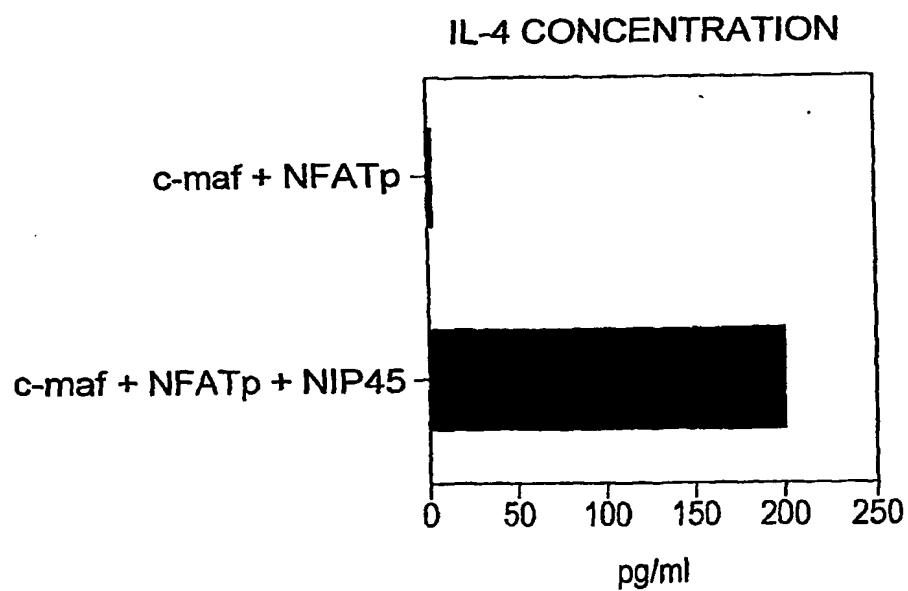
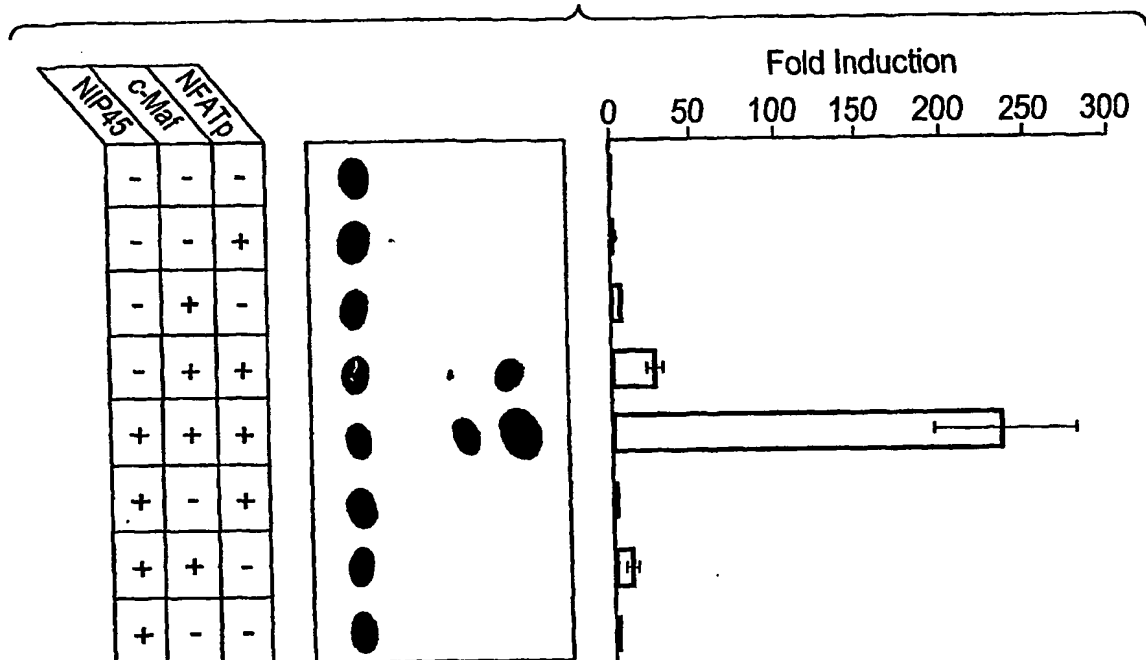


Fig. 7F

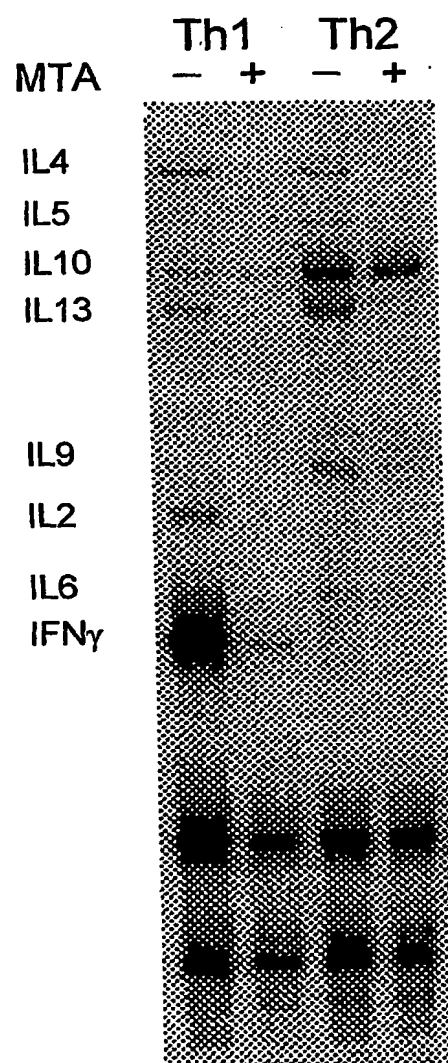
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Fig. 8

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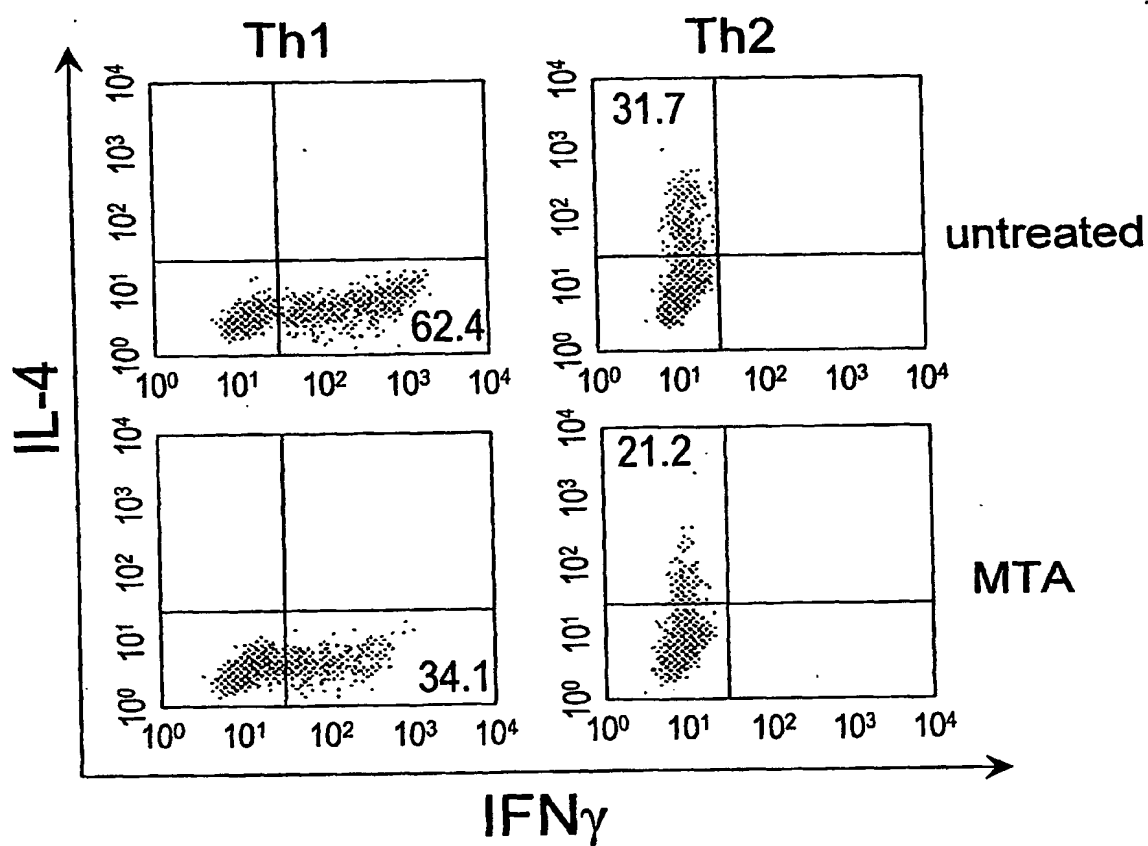
Fig. 9*Fig. 10*

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*Fig. 11A*

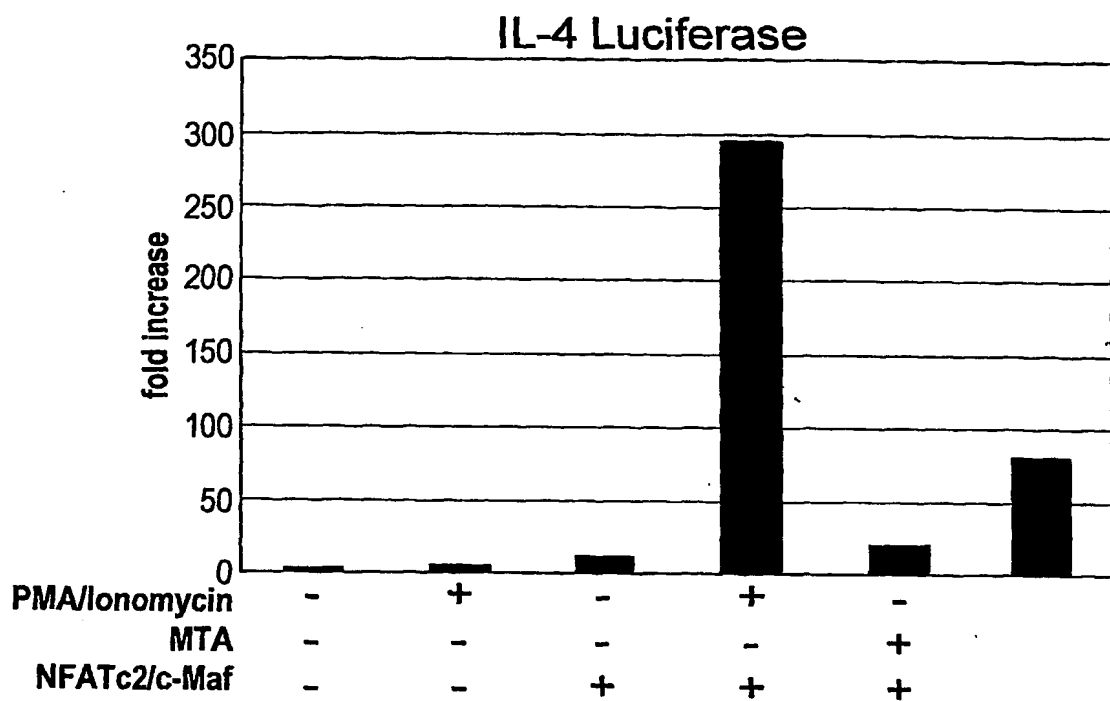
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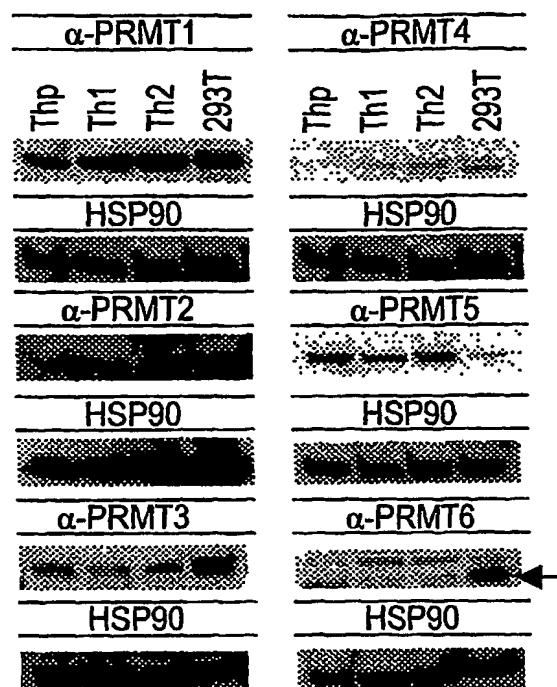
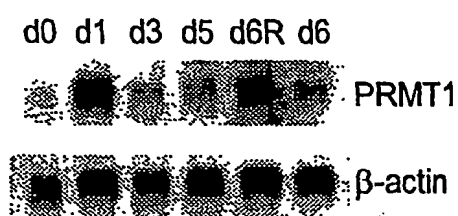
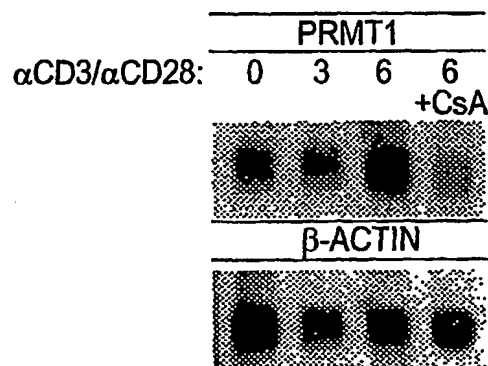
*Fig. 11B*

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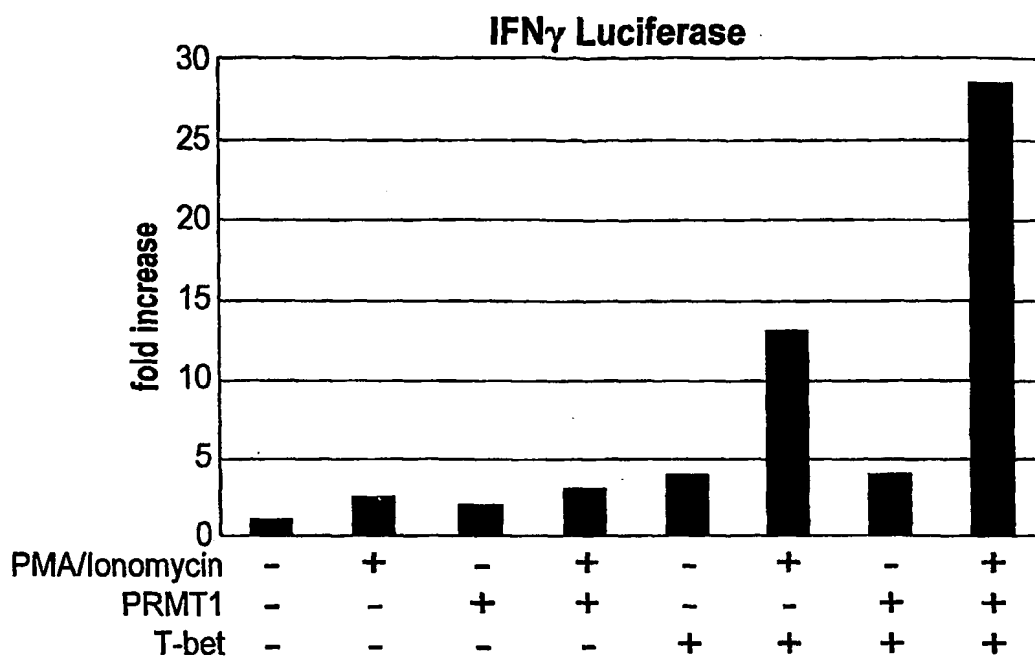
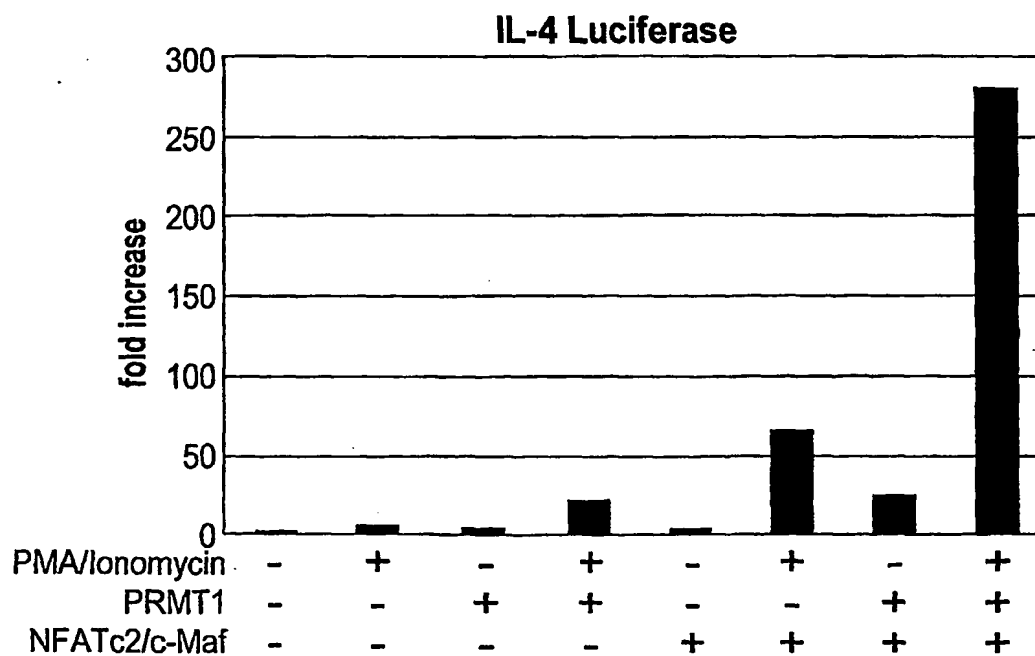
*Fig. 11C*

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*Fig. 12A**Fig. 12B**Fig. 12C*

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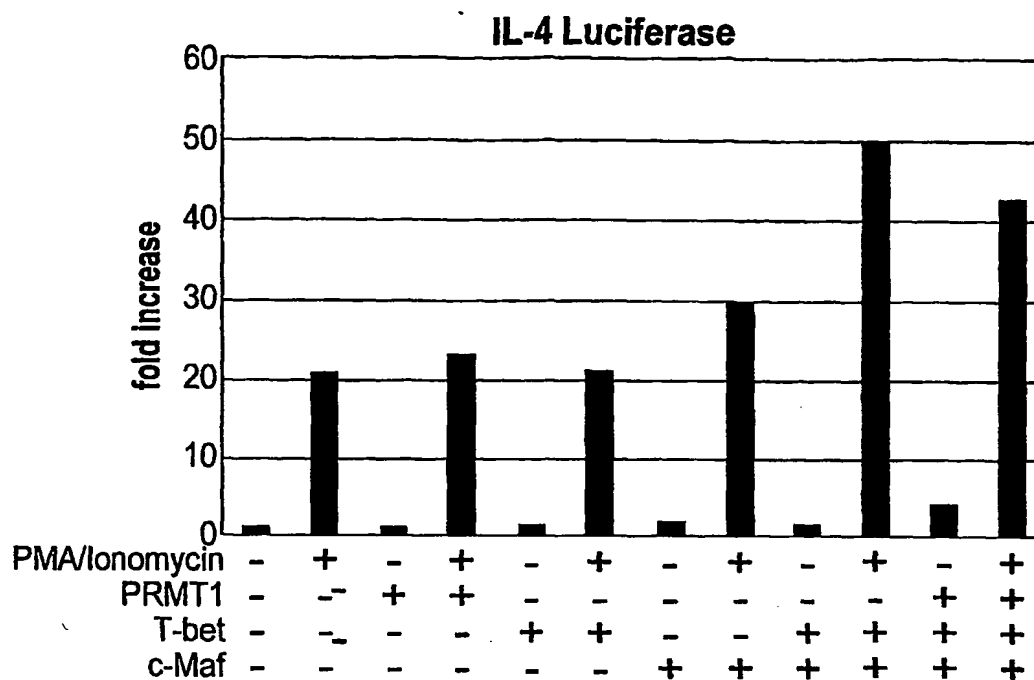
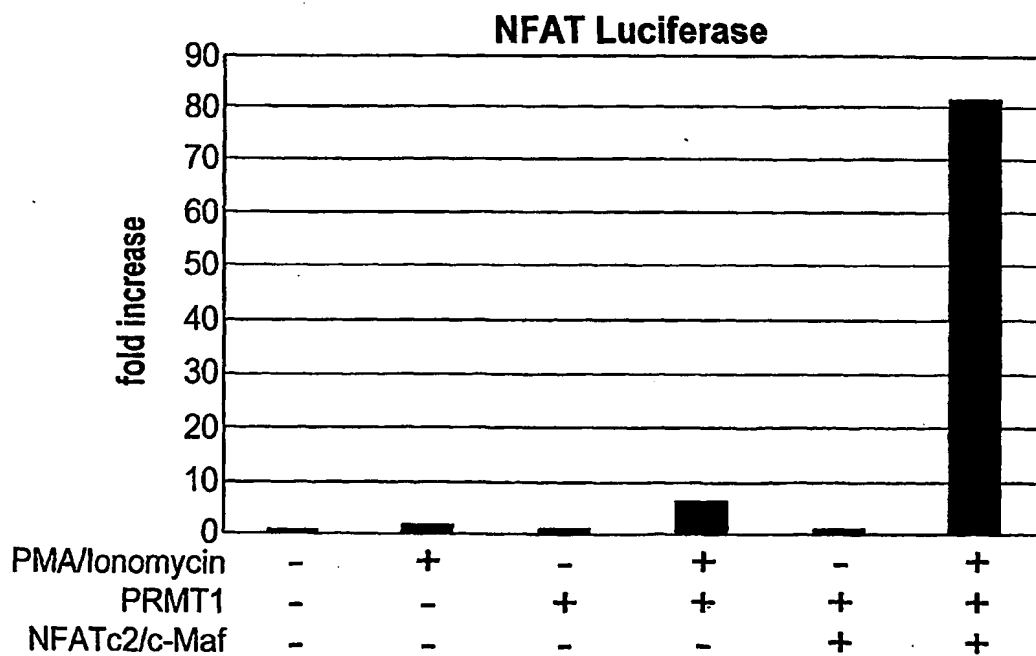
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*Fig. 13A**Fig. 13B*

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*Fig. 13C**Fig. 13D*

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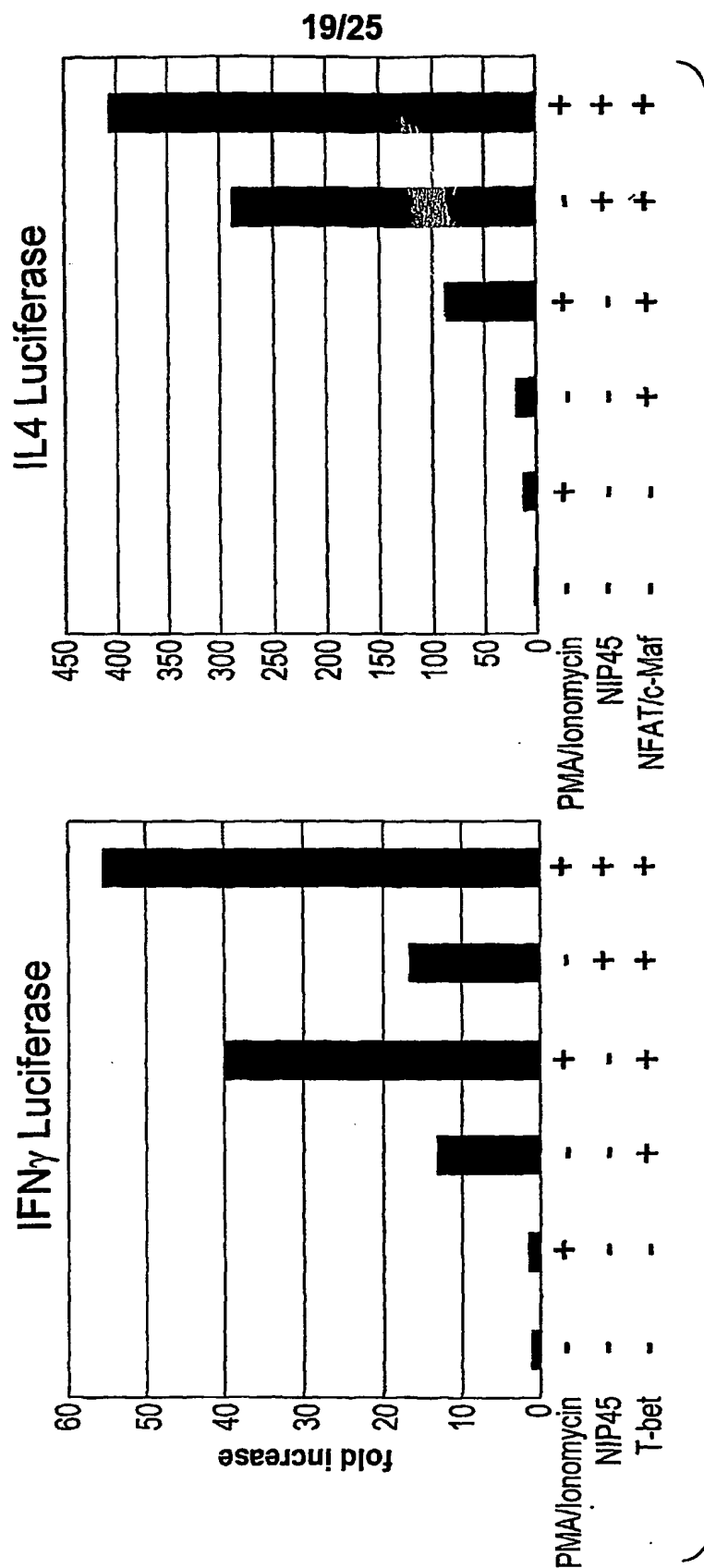


Fig. 14A

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SPARLIPDTVLVDLVSDSDEEVLEVADPVEVPVARLP
APAKPEQDSDSDSEGA AEGPAGAPRTLVRRRRRRL
LDPGEAPVVPVYSGKVQSSLNLIPDNSSLLKCPSE
PEDEADLTNSGSSPSEDDALPSGSPWRKKLRKKCE
KEEKKMEEFPDQDISPLPQPSSRNKSRKHTEALQKL
REVNKR LQDLRSCLSPKQH QSPALQSTDDEVVLVE
GPVLPQSSRLFTLKIRCRADLVRLPV RMSEPLQNVV
DHMANHLGVSPNRILL LFGESLSPTATPSTLKL GVA
DIIDCVVLASSSEATETSQELRLRVQGKEKHQM LEIS
LSPDSPLKVLMSHYEEAMGLSGHKLSFFFDG TKLS
GKELPADLGLESGDLIEVWG

Fig. 14B

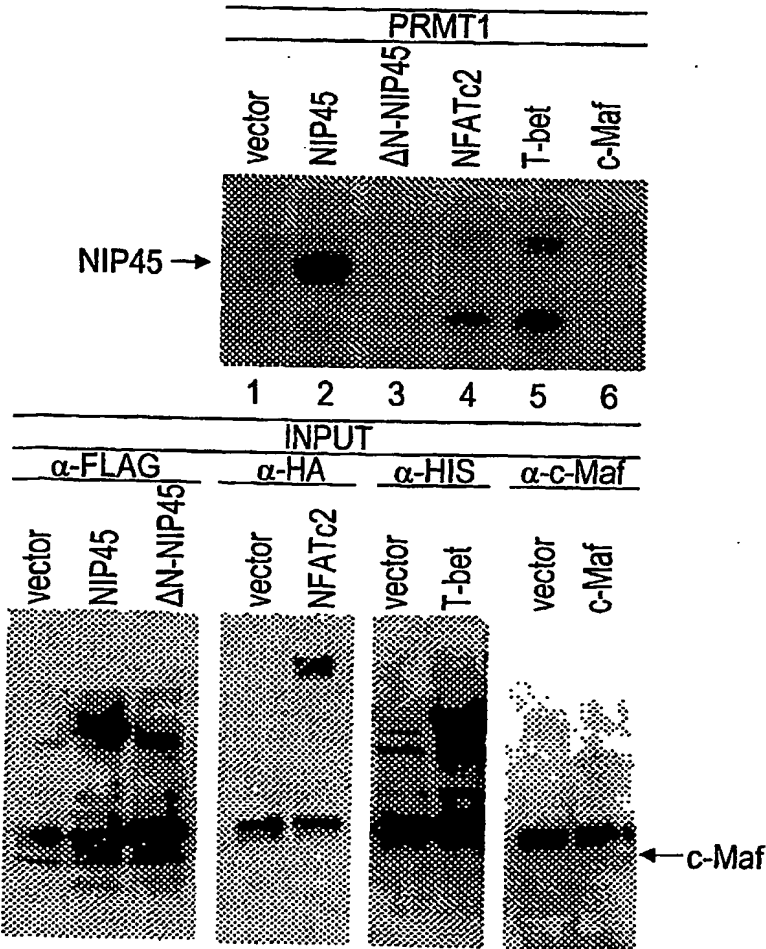
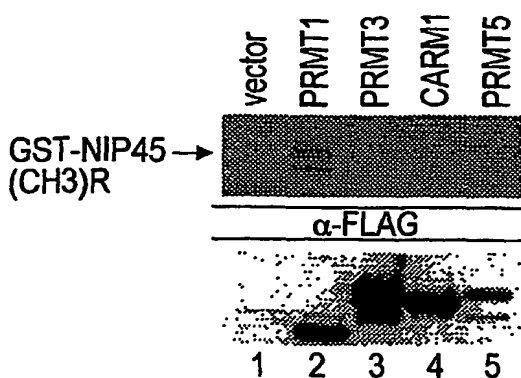
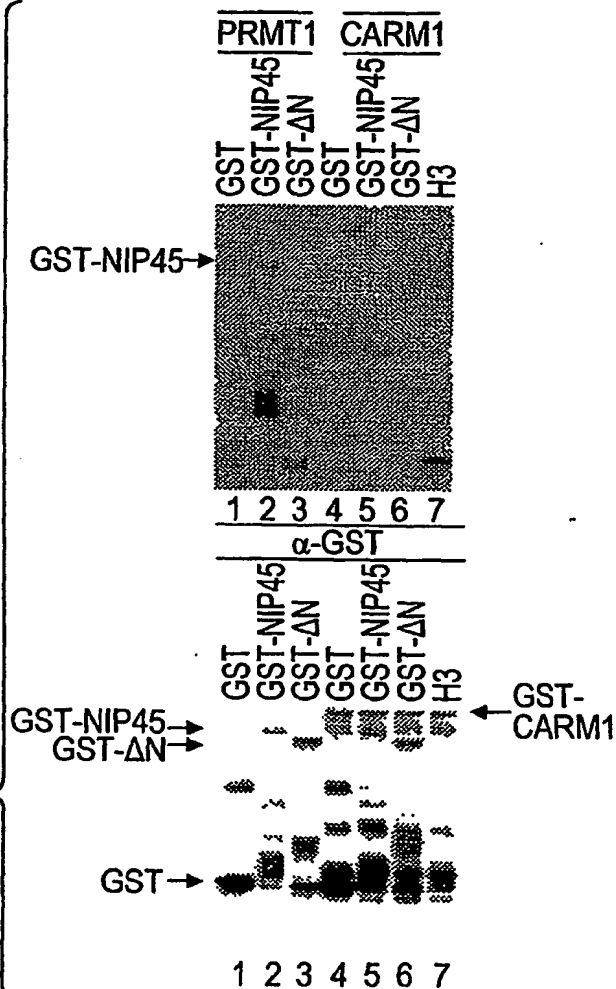
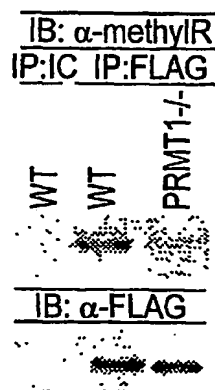
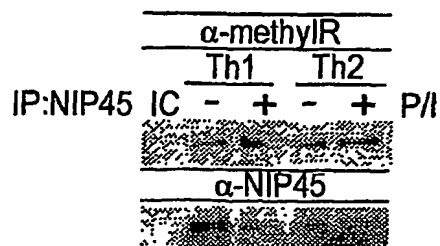


Fig. 14C

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*Fig. 15A**Fig. 15B**Fig. 15C**Fig. 15D*

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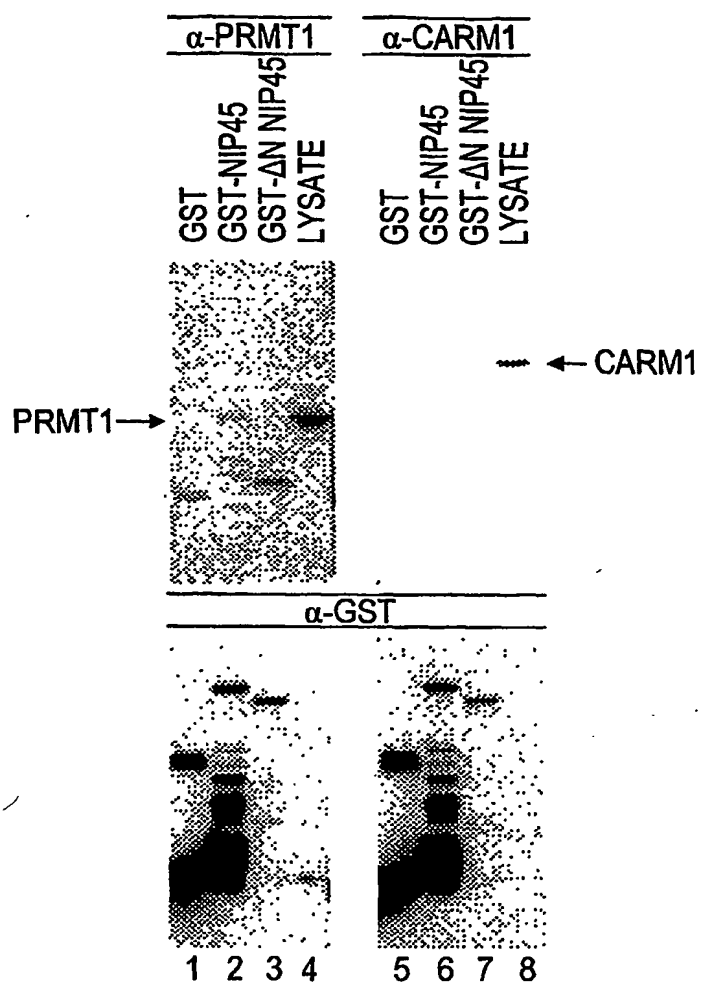


Fig. 16A

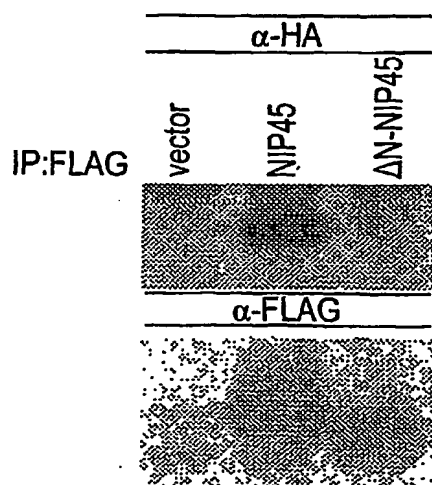


Fig. 16B

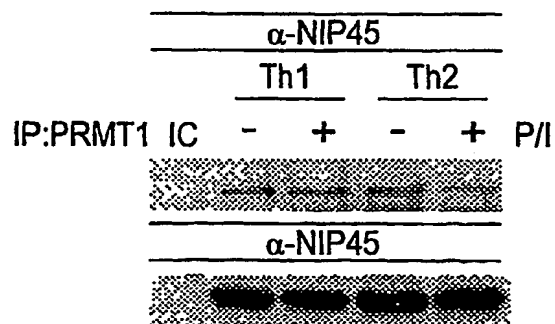


Fig. 16C

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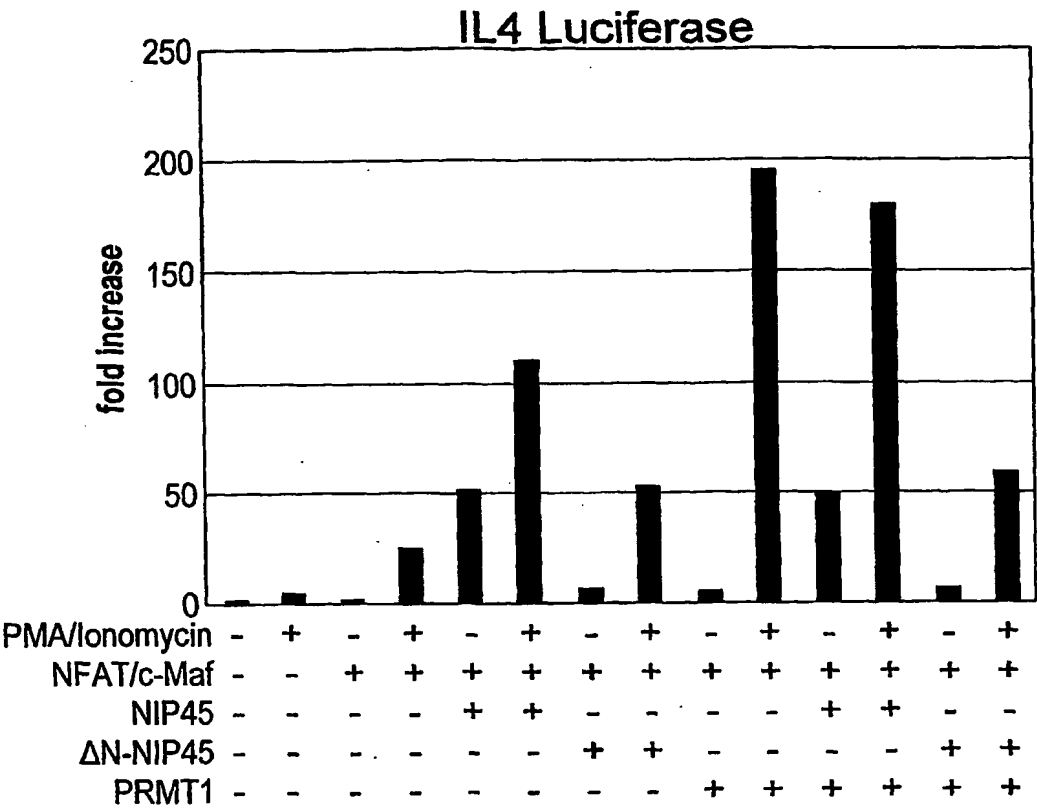


Fig. 17A

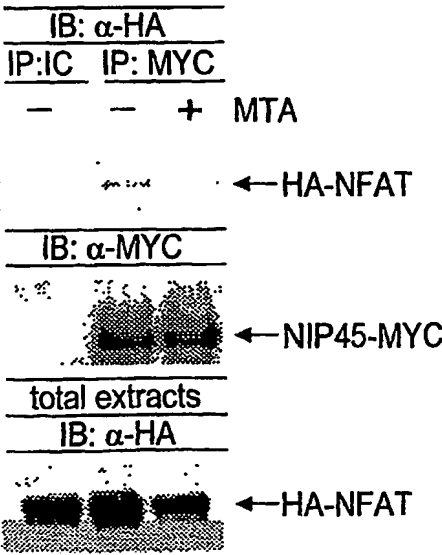
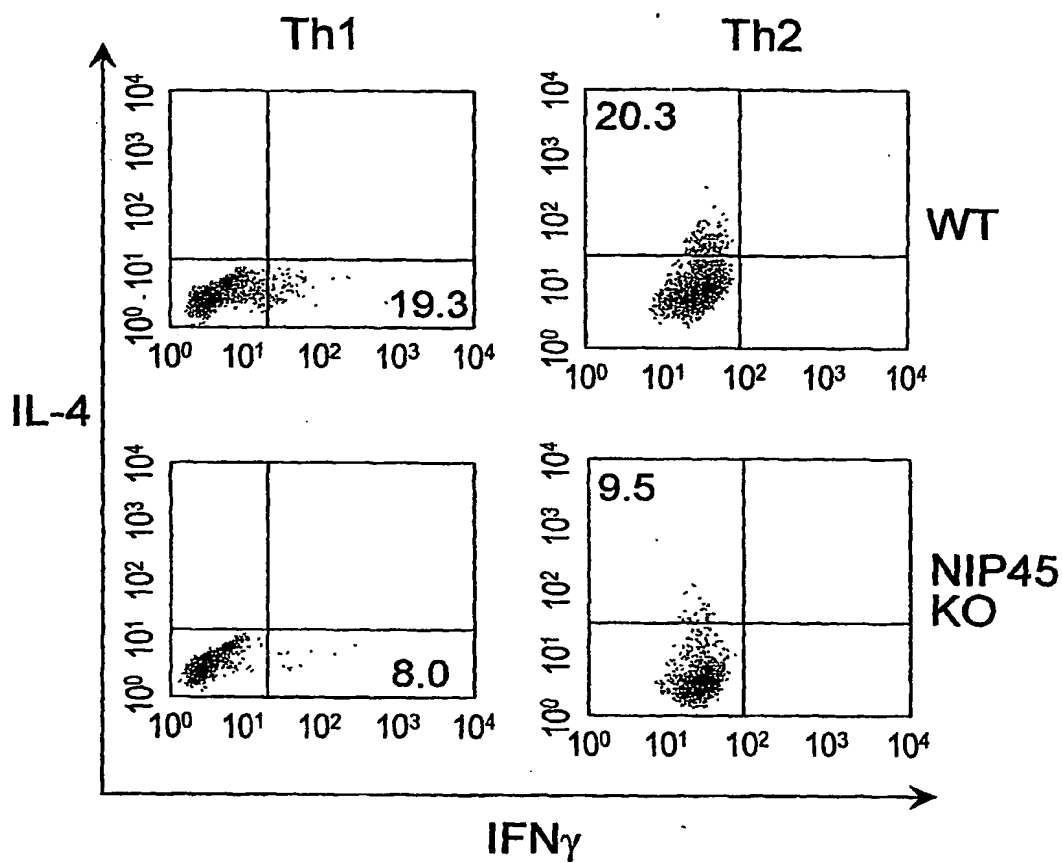


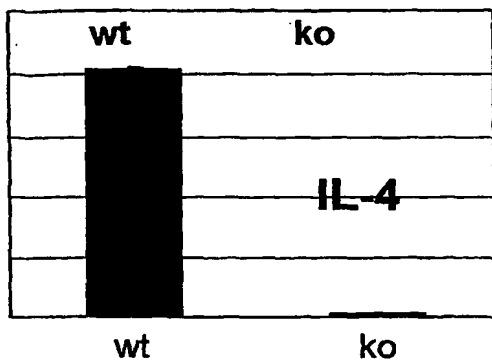
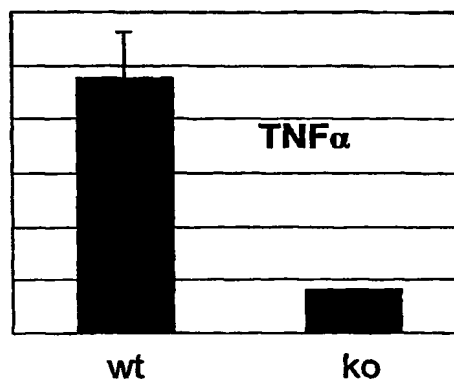
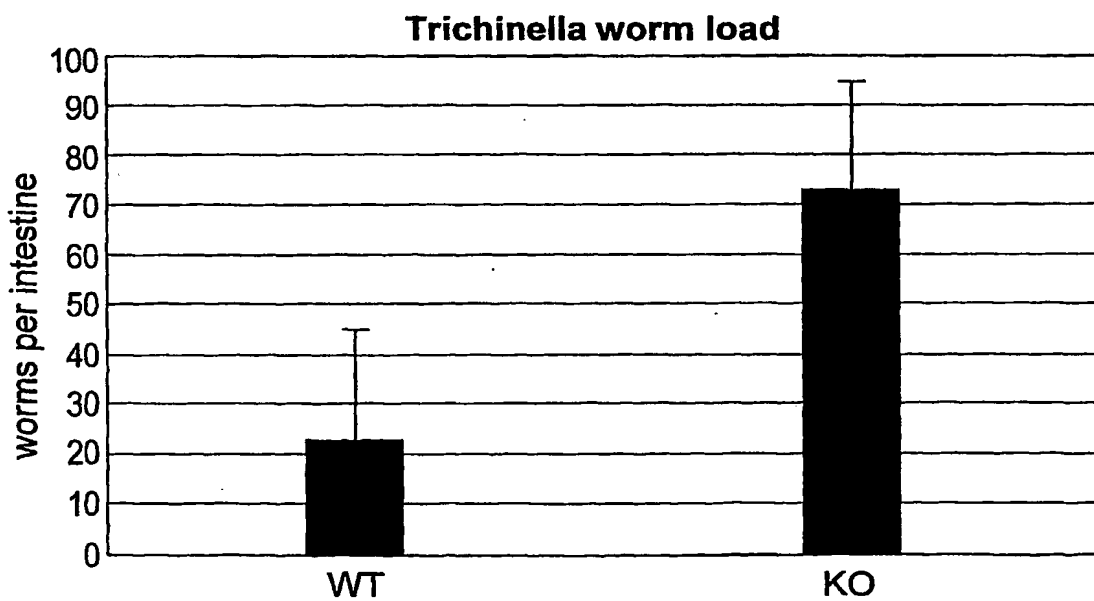
Fig. 17B

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*Fig. 18A*

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*Fig. 18A**Fig. 18B**Fig. 18C*